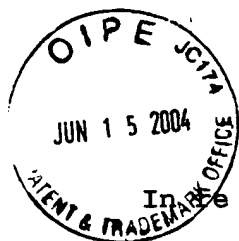


IRW



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of

Inventors: Hisao KOGA, et al. Art Unit: 2661
Application No.: 10/719,061 Examiner: Unassigned
Filed: November 24, 2003
For: MULTICARRIER TRANSMITTER, MULTICARRIER RECEIVER,
AND MULTICARRIER COMMUNICATIONS APPARATUS

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner of Patents
Washington, DC 20231

Dear Sir:

Pursuant to Rules 56 and 99, Applicants hereby call the attention of the Patent Office to the documents listed on the attached Form PTO 1449. All of these references were cited in an International Search Report dated April 26, 2004 (copy attached). WO '561 corresponds to FR '954.

Applicants present this art so that the Patent Office may, in the first instance, determine any relevancy thereof to the presently claimed invention, see Beckman Instruments, Inc. v. Chemtronics, Inc., 439 F.2d 1369, 1380, 165 USPQ 355, 364 (5th Cir. 1970). Also see Patent Office Rules 104 and 106. Applicants respectfully request that this art be expressly considered during the prosecution of this application and made of record herein and appear among the "References Cited" on any patent to issue herefrom.

Respectfully submitted,

James E. Ledbetter
Registration No. 28,732

Date: June 15, 2004

JEL/mat

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FORM PTO-1449 U.S. Department of Commerce
(Rev. 4/92) Patent and Trademark Office

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

JUN 15 2004

ATTY. DOCKET NO.

L8612.03108

SERIAL NO.

10/719,061

APPLICANT

Hisao KOGA, et al

FILING DATE

November 24, 2003

GROUP

2661

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2004 0 0 5 7 5 2 9	03/2004	Koga et al.			
	2002 0 0 0 3 8 4 3	01/2002	Martone			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
0 3 0 6 3 3 8 0	07/2003	WO			
2 8 0 0 9 5 4	05/2001	FR			
0 1 3 5 5 6 1 A1	05/2001	WO			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

International Search Report dated April 26, 2004

Ozturk E. et al.: "Waveform Encoding of Binary Signals Using a Wavelet and its Hilbert Transform"; vol. 5, 5 June 2000, pages 2641-2644

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.